

## **EXACT12, 8XM12, 4 POLE, MOULDED CABLE**

30.0m PUR 8x0.5+3x1.0, UL/CSA

8-way, 4-pole

8-way, 4-pole

Further cable lengths on request.

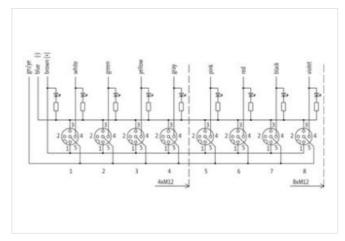
Plastic housings with good resistance against chemicals and oils.

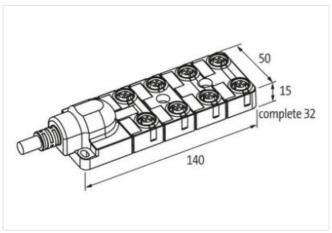
The resistance to aggressive media should be individually tested for your application. Further details on request.

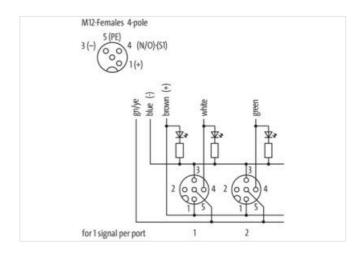
## **Link to Product**

## Illustration









Product may differ from Image









Commercial data		
ECLASS-6.0	27143423	
ECLASS-7.0	27449001	
ECLASS-8.0	27279219	
ECLASS-9.0	27440321	
ETIM-5.0	EC002585	

The information in this Product-PDF has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-04-23



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customs tariff number	85444290
GTIN	4048879309110
Packaging unit	1
	'
Electrical data   Supply	
Operating voltage DC	24 V
Current operating per contact max.	4 A
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
Device protection   Media	
Flame resistance	flame retardant
Mechanical data   Material data	
· · · · · · · · · · · · · · · · · · ·	Plants.
Material housing	Plastic
Mechanical data   Mounting data	
Mounting method	Schraubgewinde
Environmental characteristics   Climatic	
Operating temperature min.	-20 °C
Operating temperature max.	70 °C
Additional condition temperature range	depending on cable quality
Installation   Cable	
Cable identification	447
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires with Filler twisted
Stranding factor min.	51 mm
Stranding factor max.	51 mm
Amount stranding (type 2)	1
- · · · · ·	
Stranding (type 2)	9 wires around Stranding combination counter-rotating twisted
	9 wires around Stranding combination counter-rotating twisted 100 mm
Stranding (type 2)	
Stranding (type 2) Stranding factor min. (type 2)	100 mm
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2)	100 mm  100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler	100 mm  yes white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket	100 mm  100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR  85 ± 5 Shore A
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free  9,4 mm
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free  9,4 mm  ± 5 %
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free  9,4 mm  ± 5 %  TPE-E
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free  9,4 mm  ± 5 %  TPE-E
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free  9,4 mm  ± 5 %  TPE-E  8  1,8 mm
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free  9,4 mm  ± 5 %  TPE-E  8  1,8 mm  ± 5 %
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free  9,4 mm  ± 5 %  TPE-E  8  1,8 mm  ± 5 %  55 ± 3 Shore D
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free  9,4 mm  ± 5 %  TPE-E  8  1,8 mm  ± 5 %  55 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation Amount strands (wire)	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free  9,4 mm  ± 5 %  TPE-E  8  1,8 mm  ± 5 %  55 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation Amount strands (wire) Diameter of single wires	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free 9,4 mm ± 5 %  TPE-E  8  1,8 mm ± 5 %  55 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free  64  0,1 mm
Stranding (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Filler wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation Amount strands (wire)	100 mm  yes  white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)  5 Mio. @ 25 °C  146,3 g/m  PUR  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free  9,4 mm  ± 5 %  TPE-E  8  1,8 mm  ± 5 %  55 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free



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Conductor type (wire)	strand class 6
Material wire insulation (Data)	TPE-E
Outer diameter wire insulation (Data)	2,1 mm
Tolerance outer diameter wire insulation (data)	±5%
Shore hardness wire insulation (Data)	55 ± 3 Shore D
Ingredient freeness wire insulation (Data)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
Amount wires (Data)	3
Amount strands wire (Data)	128
Diameter of single wires (Data)	0,1 mm
Conductor crosssection wire (Data)	1 mm²
Material conductor wire (Data)	Stranded copper wire, bare
Wire conductor type (Data)	strand class 6
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	5,9 A
Current load capacity min. Wire (Data)	15 A
Electrical resistance line constant wire	39 Ω/km @ 20 °C
Electrical resistance coating wire (Data)	20 Ω/km @ 20 °C
Max. rated voltage power (conductor - ground)	300 V
Max. rated voltage power (conductor - conductor)	500 V
Power frequency withstand voltage power (wire - jacket)	2 kV @ 60 s
AC withstand voltage power (wire - wire)	2 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	90 °C
Operating temperature min. (dynamic)	-40 °C
Operating temperature max. (dynamic)	90 °C
Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (installation)	x Outer diameter
Bending radius (fixed)	x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Connection type 2	
Family construction form	free cable end
No. of poles	11
Family construction form	M12
Gender	female
Color contact carrier	black
Coding	A
No. of poles	4
PIN 1	+
PIN 2	n.c.
PIN 3	-
PIN 4	NO S 1
PIN 5	PE